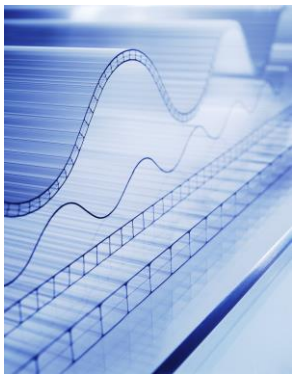
marlon
POLYCARBONATE SHEET



VENTING

Of all plastic roof lighting materials polycarbonate exhibits greatest resistance to impact over a temperature range of –20 to +100°C. It is approximately 200 times more resistant to impact than glass.

An important feature of Marlon products is that its softening point is below 200°C. When a fire in a building is underneath a Marlon product sheet it will soften, distorting at approximately 145°C, becoming fluid and starting to rupture at approximately 190°C, and sufficiently fluid by 250°C to open, allowing smoke, heat and gases produced by the fire to escape.

This 'venting' property, illustrated in Fig 1, 2 & 3, means that damage within buildings can be limited.

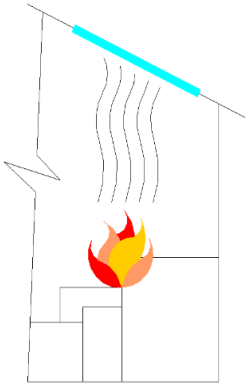


Fig.1 Fire underneath Marlon CS rooflight.

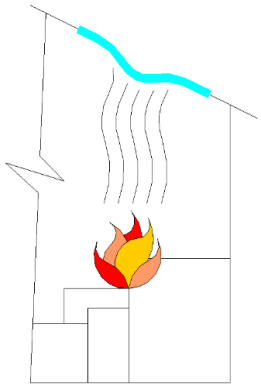


Fig.2 Hot gases rising to ceiling level soften rooflight.

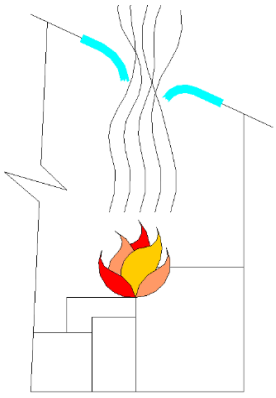


Fig.3 Rooflight opens venting hot gases to atmosphere.

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